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... together procedures that share data, than to **group** procedures that ... First, however, we define the **software** features on which the **similarity** function is ...

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... is maximized and the inter-cluster **similarity** is minimized ... and proteins that have **similar** functionality, grouping ... CLUTO is a **software** package for clustering low ...

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Sim: a utility for detecting similarity in computer programs

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We describe the design and implementation of a program called sim to measure similarity between two C computer programs. It is useful for detecting plagiarism among a large set of homework programs. This software is part of a project to construct tools to assist the teaching of computer science.

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↑ INDEX TERMS

Primary Classification:

K. Computing Milieux

↳ **K.3** COMPUTERS AND EDUCATION

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↑ ABSTRACT

We present a new approach to reducing the manual labor required to estimate software reliability. It combines the ideas of *partition testing* methods with those of *stratified sampling* to reduce the sample size necessary to estimate reliability with a given degree of precision. Program executions are stratified by using automatic *cluster analysis* to group those with *similar features*. We describe the conditions under which stratification is effective for estimating software reliability, and we present preliminary experimental results suggesting that our approach may work well in practice.

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↑ INDEX TERMS

Primary Classification:

D. Software



D.2 SOFTWARE ENGINEERING



D.2.4 Software/Program Verification



Subjects: Reliability

General Terms:

Design, Experimentation, Measurement, Performance, Reliability, Theory

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S14	29	(run\$4 or execut\$3) near3 (program or code or interval or segment or portion or section or cluster) and (profil\$3 or tracking or track or trace or tracing or record\$3) near3 (metric or statistic or behavior) and (determin\$5 or calculat\$3 or analyz\$3) near3 (similarity or similar or differenc\$3 or closest or "most likely") and (identify\$3 near3 behavior)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:34
S15	41	(run\$4 or execut\$3) near3 (program or code or interval or segment or portion or section or cluster) and (profil\$3 or tracking or track or trace or tracing or record\$3) near3 (metric or statistic or behavior) and (determin\$5 or calculat\$3 or analyz\$3) near3 (similarity or similar or differenc\$3 or closest or "most likely") and (compar\$4 near3 behavior)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:35
S16	67	717/???cccls. and (run\$4 or execut\$3) near3 (program or code or interval or segment or portion or section or cluster) and (profil\$3 or tracking or track or trace or tracing or record\$3) near3 (metric or statistic or behavior) and (determin\$5 or calculat\$3 or analyz\$3) near3 (similarity or similar or differenc\$3 or closest or "most likely")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:35

EAST Search History

S17	13	714/???.ccls. and (run\$4 or execut\$3) near3 (program or code or interval or segment or portion or section or cluster) and (profil\$3 or tracking or track or trace or tracing or record\$3) near3 (metric or statistic or behavior) and (determin\$5 or calculat\$3 or analyz\$3) near3 (similarity or similar or differenc\$3 or closest or "most likely")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:35
S18	129	"analysis points" same similar\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:54
S19	1	S13 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:36
S20	1	(determin\$3 or identify\$3 or locat\$3) near5 "analysis points" same similar\$3 and (execut\$3 or run\$4 or simulat\$3 or emulat\$3) near5 (code or section or interval or phase or portion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:40
S21	42	(determin\$3 or identify\$3 or locat\$3) same "analysis points" and similar\$3 and (execut\$3 or run\$4 or simulat\$3 or emulat\$3) near5 (code or section or interval or phase or portion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:49
S22	128	S18 not S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:49
S23	5306	identif\$7 near5 (similar\$3 near3 (region or section or portion or segment or interval or code or partition or cluster))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:56
S24	13	717/???.ccls. and identif\$7 near5 (similar\$3 near3 (region or section or portion or segment or interval or code or partition or cluster))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:56

EAST Search History

S25	13	714/???cccls. and identif\$7 near5 (similar\$3 near3 (region or section or portion or segment or interval or code or partition or cluster))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 17:57
S26	26	S24 or S25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 18:00
S27	3180	similarity.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 18:01
S28	24	S23 and S27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 18:01
S29	24	S28 not S26	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/13 18:01
S30	17	("4853851" "5132972" "5291497" "5335342" "5408642" "5423027" "5440723" "5522036").PN. OR ("5699507"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/13 18:06
S31	9	("5440742").PN. OR ("5574837"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/13 18:12
S32	28	("4319221" "4326101" "4467437" "4484348" "4528688" "4530110" "4559604" "4624011" "4651289" "4716593" "4723290" "4731845" "4745562" "4752957" "4773099" "4783806" "4876731" "4893255" "4897811").PN. OR ("5440742").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/13 18:16
S33	35	("4319221").URPN.	USPAT	OR	OFF	2006/07/13 18:27
S34	34	S33 not S31 not S30	USPAT	OR	OFF	2006/07/13 18:27
S35	32	S33 not S31 not S30 not S32	USPAT	OR	OFF	2006/07/13 18:27

EAST Search History

S36	0	"identifying similarities in code segments".ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:35
S37	75	(identifying and similarities).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:35
S38	1	(identifying and similarities).ti. and lucent.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:36
S39	346	(code or instruction) near3 similarit\$3 and (compress\$3 or condens\$3 or minimal or minimiz\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:38
S40	179	(code or instruction) near3 similarit\$3 and phase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:38
S41	1	(code or instruction) near3 similarit\$3 and phase near3 (signature or name or ID)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:38
S42	11	(code or instruction) near3 similarit\$3 and phase and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:46
S43	0	(code or instruction) near3 similarit\$3 near5 (deviate or deviation or transition\$3) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:47
S44	98	(similarit\$3 or (most\$2 near2 like\$2)) near5 (deviate or deviation or transition\$3) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 14:48
S45	15	(similarit\$3 or (most\$2 near2 like\$2)) near5 (deviate or deviation or transition\$3) and (717/???.ccls. or 714/???.ccls.) and (id or identifier or signature or name)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:02

EAST Search History

S46	562	(similarit\$3 or (most\$2 near2 like\$2)) near5 (deviate or deviation or transition\$3) and (compress\$3 or consolidat\$3 or minimal or minimize)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:04
S47	1	S39 and S46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:04
S48	54427	(similarit\$3 or (most\$2 near2 like\$2)) near5 (metric or statistic or probability or likely) and (compress\$3 or consolidat\$3 or minimal or minimize)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:05
S49	148	(similarit\$3 or (most\$2 near2 like\$2)) near5 (metric or statistic or probability) same (compress\$3 or consolidat\$3 or minimal or minimize)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:05
S50	5	(similarit\$3 or (most\$2 near2 like\$2)) near5 (metric or statistic or probability) same (compress\$3 or consolidat\$3 or minimal or minimize) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:16
S51	0	(similarit\$3 or (most\$2 near2 like\$2)) same (confidence and variance) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:17
S52	41	(similarit\$3 or (most\$2 near2 like\$2)) and (confidence and variance) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:18
S53	1	(similarit\$3 or (most\$2 near2 like\$2)) and (confidence and variance) and (717/???.ccls. or 714/???.ccls.) and (goodness near2 fit)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:18
S54	4	(similarit\$3 or (most\$2 near2 like\$2)) and (confidence and variance) and (717/???.ccls. or 714/???.ccls.) and clustering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:18

EAST Search History

S55	5	clustering and (confidence and variance) and (717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:20
S56	5	S53 or S54 or S55	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:19
S57	503	clustering and (confidence and variance) and similarity and (program or code)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:21
S58	3	clustering and (confidence and variance) and similarity and (program or code) and "program behavior"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:22
S59	372	clustering and (confidence and variance) and similarity and (computer near3 (program or code or software or application))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:24
S60	1	clustering same (confidence and variance) same similarity and (computer near3 (program or code or software or application))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:24
S61	68	clustering and (confidence and variance) and similarity and (computer near3 (program or code or software or application)) and ???/???.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:51
S62	2	"5699507".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 15:51
S63	17	("4853851" "5132972" "5291497" "5335342" "5408642" "5423027" "5440723" "5522036").PN. OR ("5699507").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:04
S64	12954	(mecl or edgesim or mojo)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:04

EAST Search History

S65	12895	(mecl or edgesim)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:05
S66	2112	(mecl or edgesim) same similar\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:05
S67	7	(mecl or edgesim) same similar\$3 same cluster\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:06
S68	3005	clustering same related	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:10
S69	0	S66 and S68	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/17 16:10
S70	11	S61 and S68	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 08:05
S71	6772	(statical\$2 or statistic\$4 or metric or metadata or analysis or analyzing) same cluster\$3 same (optimal\$2 or optimiz\$5 or optimis\$5 or minimiz\$5 or minimal\$2 or least or less or small\$3 or reduc\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 08:08
S72	1060	(statical\$2 or statistic\$4 or metric or metadata or analysis or analyzing) same cluster\$3 same (optimal\$2 or optimiz\$5 or optimis\$5 or minimiz\$5 or minimal\$2 or least or less or small\$3 or reduc\$4)and 7??/???. ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 08:08
S73	222	(execut\$4 or run\$4 or dynamic\$4) same (statical\$2 or statistic\$4 or metric or metadata or analysis or analyzing) same cluster\$3 same (optimal\$2 or optimiz\$5 or optimis\$5 or minimiz\$5 or minimal\$2 or least or less or small\$3 or reduc\$4) and 7??/???. ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 08:10

EAST Search History

S74	203	(execut\$4 or run\$4 or dynamic\$4) same (statical\$2 or statistic\$4 or metric or metadata or analysis or analyzing) same cluster\$3 same (optimal\$2 or optimiz\$5 or optimis\$5 or minimiz\$5 or minimal\$2 or least or less or small\$3 or reduc\$4) and 7??/???. ccls. and similar\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 08:10
S75	40	(execut\$4 or run\$4 or dynamic\$4) same (statical\$2 or statistic\$4 or metric or metadata or analysis or analyzing) same cluster\$3 same (optimal\$2 or optimiz\$5 or optimis\$5 or minimiz\$5 or minimal\$2 or least or less or small\$3 or reduc\$4) and 7??/???. ccls. and similar\$3 near3 (like\$4 or distance or degree or number)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 10:05
S76	1	"5953006".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 10:40
S77	0	("5953006" "5574837" "5699507"). pn. and (confidence or variance)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/18 11:04
S78	0	("5953006" "5574837" "5699507"). pn. and (simulat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 11:11
S79	0	("5953006" "5574837" "5699507"). pn. and ("number of instructions")	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 11:11
S80	2	("5953006" "5574837" "5699507"). pn. and (id or identifier)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 11:11
S81	2	"5574837".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 10:38
S82	2	"5699507".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 08:41

EAST Search History

S83	20	("4853851" "5132972" "5291497" "5335342" "5408642" "5423027" "5440723" "5522036").PN. OR ("5699507").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 11:21
S84	1	"5574837".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 11:21
S85	13	("5440742").PN. OR ("5574837").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 12:47
S86	315	similarity.ti.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 12:47
S87	275	similarity.ti. and (time or "number of")	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 12:48
S88	203	similarity.ti. and (time or "number of") and (execut\$4 or runtime)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/11 12:50
S89	38	similarity.ti. and (time or "number of") and (execut\$4 or runtime) and interval	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/11 12:57
S90	120	similarity.ti. and (time\$1 or "number of" or count) and (run\$4 or execut\$4) near3 (code or instruction or software)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:08
S91	108	S90 not S89	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 13:00

EAST Search History

S92	10	("5067152" "5101475" "5469354" "5612865" "5794178" "5806061" "6061734" "6134532" "6349296" "6603470").PN. OR ("7158961").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/11 14:06
S93	8167	similar\$3 and (time\$1 or "number of" or count) near2 interval and (test\$3 or emulat\$3 or simulat\$3) near3 (code or instruction or software)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:09
S94	34	(analysis or compar\$4) near5 similar\$3 same (time\$1 or "number of" or count) near2 interval and (test\$3 or emulat\$3 or simulat\$3) near3 (code or instruction or software)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:10
S95	34	S94 not S89	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:14
S96	31897	(sampl\$3 near3 interval) and (similar or similarity or similarities)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:15
S97	6146	(sampl\$3 near3 interval) and (similar or similarity or similarities) and (simulat\$3 or emulat\$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:17
S98	435	(sampl\$3 near3 interval) same (compar\$4 or analyz\$3 or analysis or determin\$5 or classify\$3 or identify\$3) same (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:20

EAST Search History

S99	105	(sampl\$3 near3 interval) same (compar\$4 or analyz\$3 or analysis or determin\$5 or classify\$3 or identify\$3) same (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3) and (count or number or length or time or timed) and (similar or similarity or similarities) near5 (function\$5 or behavior or activit\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:28
S100	2	"20050010902"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:28
S101	100	(sampl\$3 near3 interval) same (compar\$4 or analyz\$3 or analysis or determin\$5 or classify\$3 or identify\$3) same (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3) near3 (software or code or instruction) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:12
S102	8	(717/???ccls. or 714/???ccls.) and (sampl\$3 near3 interval) same (compar\$4 or analyz\$3 or analysis or determin\$5 or classify\$3 or identify\$3) same (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3 or dynamic\$3 or monitor\$3 or profil\$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:27
S103	0	(703/???ccls.) and (sampl\$3 near3 interval) same (compar\$4 or analyz\$3 or analysis or determin\$5 or classify\$3 or identify\$3) same (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3 or dynamic\$3 or monitor\$3 or profil\$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:30

EAST Search History

S10 4	7	(cluster\$3 and constraint and weight\$3) and (sampl\$3 near3 interval) same (compar\$4 or analyz\$3 or analysis or determin\$5 or classify\$3 or identify\$3) same (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3 or dynamic\$3 or monitor\$3 or profil\$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:35
S10 5	103	(sampl\$3 near3 interval) same (compar\$4 or analyz\$3 or analysis or determin\$5 or classify\$3 or identify\$3) near5 (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3 or dynamic\$3 or monitor\$3 or profil\$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:42
S10 6	91	S105 not S101	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 16:36
S10 7	46	sampl\$3 near3 (interval or section or segment or portion or subsection) same (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3 or dynamic\$3 or monitor\$3 or profil\$3 or sampl\$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 17:01
S10 8	70	(interval or section or segment or portion or subsection) and degree near3 (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3 or dynamic\$3 or monitor\$3 or profil\$3 or sampl\$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 17:02

EAST Search History

S109	228	(interval or section or segment or portion or subsection) and (degree or amount or measur\$4) near3 (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3 or dynamic\$3 or monitor\$3 or profil\$3 or sampl\$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 17:05
S110	0	S109 not S108 not S109 not S105	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 17:06
S111	157	S109 not S108 not S107 not S105	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 07:23
S112	103	(sampl\$3 near3 interval) same (compar\$4 or analyz\$3 or analysis or determin\$5 or classify\$3 or identify\$3) near5 (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3 or dynamic\$3 or monitor\$3 or profil\$3) and (count or number or length or time or timed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 07:23
S113	46	sampl\$3 near3 (interval or section or segment or portion or subsection) same (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3 or dynamic\$3 or monitor\$3 or profil\$3 or sampl\$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 07:23
S114	70	(interval or section or segment or portion or subsection) and degree near3 (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3 or dynamic\$3 or monitor\$3 or profil\$3 or sampl\$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 07:23

EAST Search History

S11 5	228	(interval or section or segment or portion or subsection) and (degree or amount or measur\$4) near3 (similar or similarity or similarities) and (simulat\$3 or emulat\$3 or execut\$3 or dynamic\$3 or monitor\$3 or profil\$3 or sampl\$3) and (count or number or length or time or timed) and (703/???.ccls. or 717/???.ccls. or 714/???.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 07:23
S11 6	157	S115 not S114 not S113 not S112	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 09:15
S11 7	3	"2002015135"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 09:15
S11 8	2	"20020015135"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 09:16
S11 9	1	smmt and similarity and metric	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 09:27
S12 0	27	smmt	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/12 11:27